

09413000 SANTA CLARA RIVER AT ST. GEORGE, UT

LOCATION.--Lat 37°04'31", long 113°35'32", in SE¹/₄SW¹/₄NE¹/₄ sec. 1, T. 43 S., R. 16 W., Washington County, Hydrologic Unit 15010008 on right bank 0.8 mi upstream from mouth and 2 mi south of St. George.

DRAINAGE AREA.--541 mi².

PERIOD OF RECORD.--October 1950 to September 1956, November 1984 to current year.

GAGE.--Water-stage recorder. Crest-stage gage since Jan. 27, 1993. Elevation of gage is 2,560 ft above sea level, from topographic map. October 1950 to September 1956, gage located 0.25 mi downstream; November 1984 to September 1989, 0.5 mi downstream from present site, both at different datum.

REMARKS.--Records fair except those for estimated daily discharges and those for flows less than 2.0 ft³/_s, which are poor. Flow regulated by reservoirs and many diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,000 ft³/_s Mar. 12, 1995, gage height, 14.60 ft, from rating curve extended above 2,800 ft³/_s. No flow at times in 1951, 1953, 1955-56, 1989, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4860 ft³/_s Jan. 3, gage height, 14.09 ft; minimum daily discharge, 0.83 ft³/_s July 13

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.6	5.2	4.8	22	12	9.0	4.8	2.3	1.9	2.4	2.1
2	2.2	2.5	5.2	4.8	22	13	9.7	4.8	2.4	1.9	2.8	6.2
3	2.2	2.4	5.1	328	21	13	14	4.8	2.2	2.1	3.0	37
4	2.2	2.4	5.2	17	20	13	14	5.6	2.2	2.3	22	29
5	2.0	2.3	5.4	14	22	11	12	5.2	2.5	2.6	9.7	8.8
6	2.0	2.2	5.5	12	23	10	13	4.1	2.6	1.7	3.5	5.1
7	2.2	2.4	5.4	11	22	9.0	11	4.0	2.8	2.1	2.6	4.3
8	2.0	2.6	5.3	11	22	10	8.8	4.0	2.7	1.4	2.4	2.8
9	2.1	2.5	5.6	11	22	12	7.0	4.4	2.4	1.2	1.8	2.8
10	2.1	2.6	11	12	22	12	7.5	5.7	e2.2	.87	11	2.8
11	1.5	2.4	6.4	10	22	9.3	7.9	7.2	e2.0	1.4	5.2	3.1
12	1.7	2.5	5.7	14	22	8.5	7.9	3.8	e2.0	1.2	3.5	2.3
13	1.7	2.2	5.4	21	20	9.4	6.6	4.0	e2.0	.83	3.1	2.2
14	2.0	2.2	5.3	13	22	11	6.1	3.3	e2.0	1.7	2.9	2.5
15	1.6	3.4	5.1	11	23	7.8	6.4	3.3	e2.0	1.6	2.4	9.6
16	2.0	2.9	5.2	11	20	8.6	6.0	3.3	e2.0	1.2	1.9	5.4
17	2.0	2.8	5.4	11	18	11	6.4	3.2	e2.0	1.4	1.7	3.6
18	2.1	2.6	5.2	11	17	11	6.7	3.1	e2.0	1.4	1.9	3.4
19	2.1	2.9	5.2	11	16	9.8	5.9	3.3	e2.0	.95	2.4	3.8
20	2.1	2.8	5.2	11	15	9.6	4.9	3.6	e1.8	1.3	2.5	3.3
21	2.1	8.9	5.3	11	14	9.8	5.0	2.9	e1.6	1.8	2.0	3.1
22	2.3	87	5.4	11	10	10	5.3	2.9	e1.6	2.0	2.7	3.0
23	2.5	22	5.2	13	9.3	10	5.4	2.9	e1.3	3.1	2.4	3.4
24	2.8	8.1	5.1	11	8.8	10	5.6	3.1	e1.3	3.3	2.2	2.6
25	3.7	6.1	5.0	12	8.5	7.3	5.2	2.8	e1.3	2.1	2.2	3.2
26	3.5	5.1	5.1	35	8.5	8.3	5.3	4.5	e1.3	2.1	2.2	36
27	3.9	5.4	5.0	21	16	8.1	6.3	3.4	e1.3	1.9	1.8	6.1
28	4.9	5.4	5.2	18	13	6.3	5.3	2.8	1.3	2.5	1.9	3.6
29	4.0	5.4	5.0	22	---	5.9	5.3	2.3	1.4	2.9	1.5	3.3
30	3.3	5.4	4.9	22	---	7.0	4.9	2.4	1.7	3.1	1.7	3.5
31	4.5	---	5.1	22	---	7.6	---	2.2	---	3.0	1.9	---
TOTAL	77.3	210.0	169.3	747.6	501.1	301.3	224.4	117.7	58.2	58.85	111.2	207.9
MEAN	2.49	7.00	5.46	24.1	17.9	9.72	7.48	3.80	1.94	1.90	3.59	6.93
MAX	4.9	87	11	328	23	13	14	7.2	2.8	3.3	22	37
MIN	1.5	2.2	4.9	4.8	8.5	5.9	4.9	2.2	1.3	.83	1.5	2.1
AC-FT	153	417	336	1480	994	598	445	233	115	117	221	412

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-56, 1986-97 BY WATER YEAR (WY)

	1951	1952	1953	1954	1955	1956	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
MEAN	3.23	4.69	6.03	13.7	17.4	36.9	20.5	13.8	8.99	4.89	6.86	3.67						
MAX	10.3	12.7	14.5	128	136	313	136	80.8	73.5	29.1	38.8	7.10						
(WY)	1993	1953	1953	1993	1993	1995	1952	1993	1995	1995	1955	1985						
MIN	.22	.59	.91	.82	.79	1.44	1.50	1.09	.31	.36	.055	.29						
(WY)	1991	1991	1992	1991	1991	1991	1991	1990	1990	1990	1956	1953						

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1951-56, 1986-97

ANNUAL TOTAL			1691.40			2784.85												
ANNUAL MEAN			4.62			7.63				12.0								
HIGHEST ANNUAL MEAN										56.0							1993	
LOWEST ANNUAL MEAN										1.18							1991	
HIGHEST DAILY MEAN				87	Nov 22		328	Jan 3		2910							Mar 12 1995	
LOWEST DAILY MEAN				.80	Jul 28		.83	Jul 13		.00							Sep 21 1951	
ANNUAL SEVEN-DAY MINIMUM				.94	Jul 23		1.2	Jul 8		.00							Aug 2 1956	
ANNUAL RUNOFF (AC-FT)				3350			5520			8670								
10 PERCENT EXCEEDS				7.8			14			18								
50 PERCENT EXCEEDS				3.1			4.5			3.6								
90 PERCENT EXCEEDS				1.4			1.9			.40								

e Estimated